

FIGURE 1

668240 20570560



FIGURE 2

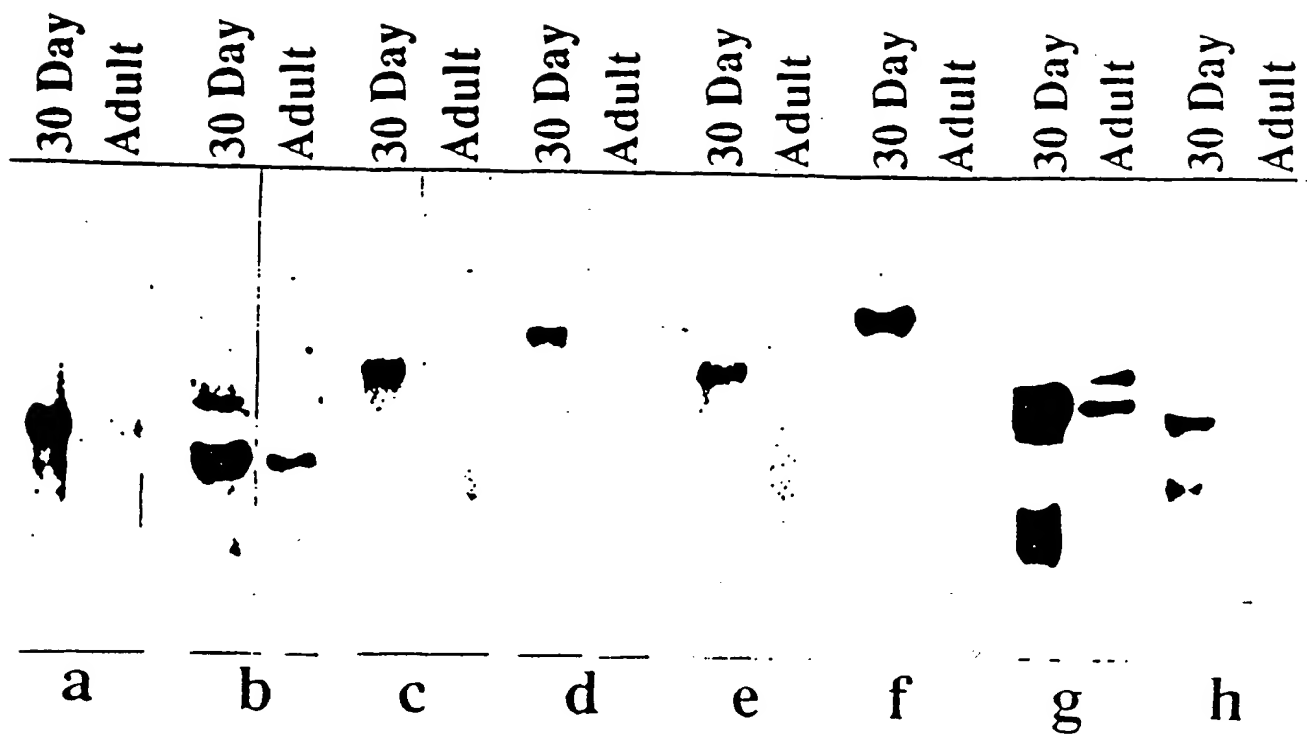


FIGURE 3

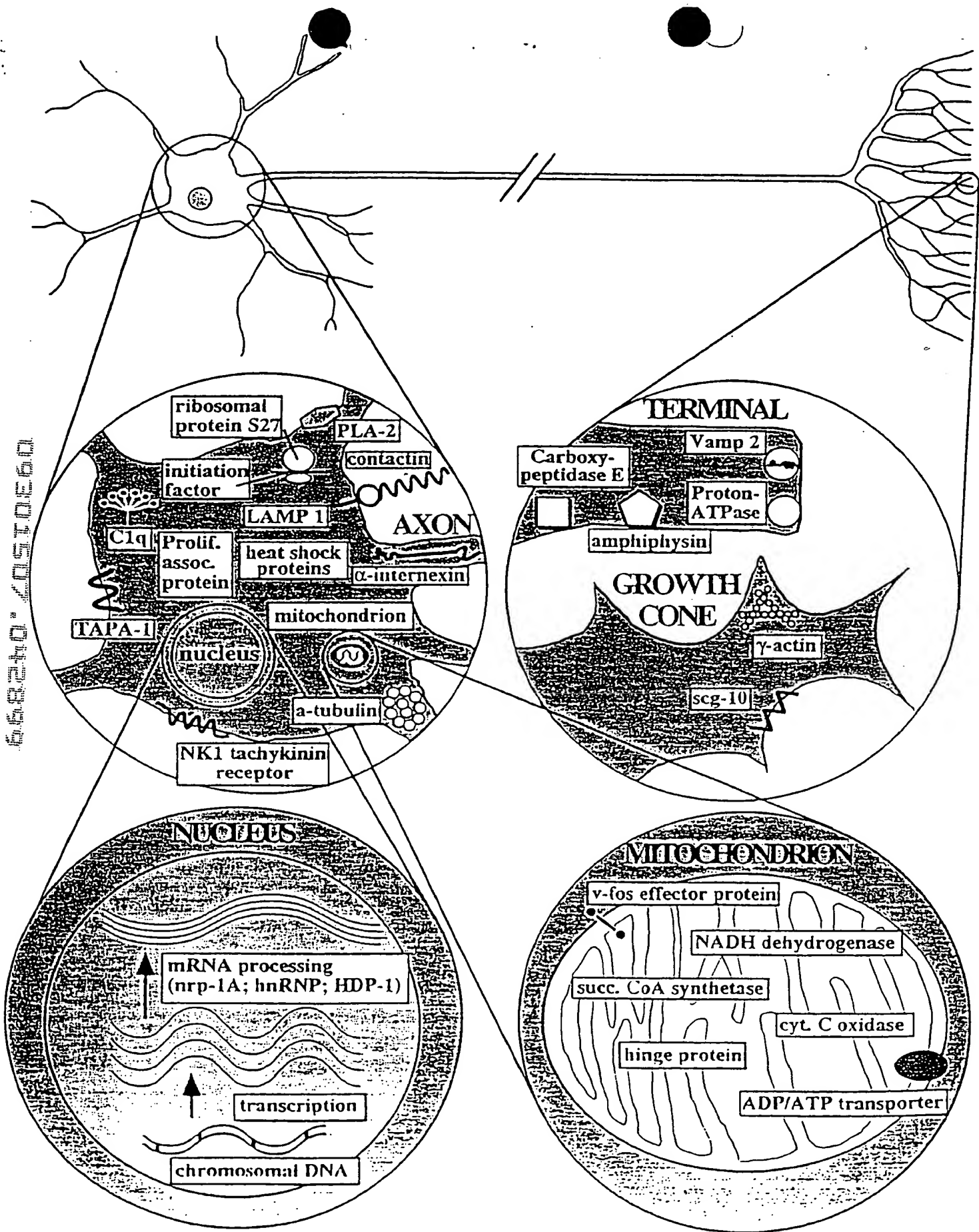


FIGURE 4

663240-40570560

SEQ ID. NO.: 1

pKVC43:

CCTGGCTGCCTGTGCCTCAACCCCACTCCCAGGGAGACCAAAAGCCTTCATACATCTGAA AT

SEQ ID. NO.: 2

pKVC2B:

GCGACGGACGAGATGTCTTCGGTGTCTTGCCTTCGCTACCAGGTCAAAATGCAAATCTTCGTGAAAAC  
CCTGACgGGCAAGACCATCACCC

SEQ ID. NO.: 3

pKVC15:

TTTTTTTTTAATTGAGAAAGACATAATGGTTATGGCATTGGCTTGAAACCAGTTAAACACCGTTTCGATT  
CCTTCCTTTCTTATTTTAATAGTACGTtAAGTTGGCTCTTCAAAT

SEQ. ID. NO.: 4

>pKVC24BR

poly(T)ATCCATACTTGCTATTTATTTAGGCTTCTAGTTTGGAAACAAAAGGNCAAGAGTTAAAAAAT  
GCCAACATTTCAAGGACCCTTGTT

SEQ ID. NO.: 5

pKVC26B:

CTTCCCCCACTCATCCCTGCTCTGGTCCCTTGTgCCCCCTTGGCCCTTTACCCCAAGCACCACCCACAG  
ACTGGGGACCAGCCCCCTCTCCTGCCTATGTCTCgCCCCAAAT

SEQ ID. NO.: 6

pKVC50B:

CCTTCCCTTCCTTACTTTAATAGTTTCGGTAGTACGGANGTTAAATCTTCAGGTCGGTGGTACGCAGCCG  
GGCAACCATGCAATGGATTNAAGGTNGGTAATGGTACAATTGGCCTATGCCCACTTT

SEQ ID. NO.: 7

pKVC85B:

CTTTAGAGCGCACTCAGGGGCACTTGNAAGGGCTTCTCACGAGCGTGGCTGTGGCCATCTGTGGAAAGA  
GCTTCTCGCAGTGNTCGGTNGNNTTATCCCCACGCCNTAGNGCACTACTC

SEQ ID. NO.: 8

pKVC100:

TTAGTTTCACATTCAAGGGGCTTATGAAGAGATGCAAGTCAGGATACATAGGCTTGATTC  
TTGGCAGCTTAaTGAGTaTTCACtGAGGCACTtG

SEQ ID. NO.: 9

pKVC94B:

CCGCCTGATATAGACACTTCGTAGAGCGTAGTTTGACTATTCCTATACGTTTCTATTTATTGATGAGGA  
TCCTAAA

FIGURE 5A

SEQ ID. NO.: 10

pKVC90B:

TTTATTATGCACACGTTGTTCAAATAAACCAGTGTGGGATGTTAAGACTATCAATTAATGGTGGGATTA  
TGTTTGGCATTATTATTNNTTATAAATATATATTTTTCTGAATGTGTCCTGAGNTCCAAAGAGGTTGGG  
GGNGGGGGNG

SEQ ID. NO.: 11

pKVC91B:

TTTCCTTGGGTTGCTGGTTGGATTAATCTTTAATAACAATATATAGAATTGTAGACTGATGTTTTAGTG  
TTTTTCCAACACACAAACATAAAAAATAAAACAAGTCGGACCGCTACTTCTGTGTAAATCAAGATCNTT  
GGGGAA

SEQ ID. NO.: 12

pKVC101B:

CCTGGCCAGCGGGCAGGGCCACGAAGGCAAGATCGGTCGTTGTGCTTGTGTTTTCCAAGGAGACGANCC  
NATNANCTGTAAATATGTACACGTNTCTGTCTGTGTGTCCTTCGNGGNAGG  
ATGGTCGGNTCTATTAAA

SEQ ID. NO.: 13

pKVC103fB:

CCAAAATATATTTGGGCCAAATGTTCCGAGGATGAGTCAGGCTGTCCTTCGCGCGGGCGAGACGAAGCT  
TCACACGGGACAAGATGGGATGGGTTGGAGGAATGGATGGTCCCCCAAACA  
ATGGGCTTANAANAATTAT

SEQ ID. NO.: 14

pKVC105:

TTTACTGACAAGCATGGGGAAGTGTGCCAGCTGGCTGGAAGCTGGCAGTGATACCATCAAGCCTGATG  
TCcAGAAGAGCAAAGAATATTTCTCTAAGCAGAAGTGAGCGCTAGGCCTTTT

SEQ ID. NO.: 15

pKVC107:

CGGCTTCcTGGGCTTTATCGTATGAGCCCATCACATGTTTACTGTAGGAATGGATGTAGACACACGAGC  
ATACTTTACATCAGCCACTATAATTATTGCCATTCCcTACCGGGGTGAAAGT ATTAGTTGACT

SEQ ID. NO.: 16

pKVC1B:

GGAGCTTGAAGAAGAAGTTTTTTACCACCGTCTTTTTCTACTTTATACAGAAGTAGATATTCCTGCGAA  
GAAGAATAATTTGGGGTAATATGCAAGCTAGTAGATGTGGCACAGCAAATC ATATAATAAA

SEQ ID. NO.: 17

pKVC5B:

ACCCACCCAGAGCCTGGAATCAGGATCCAGGGTCTAGCCAGCCTGGGGTCCAGAACCCAGAATCCAG  
CCTGTCTGAGCTGGACCTAGCAGCCAGAGTCTAGCCAGCCTCGCTCCAAGAGGGGCTCTGGTGGCCTA  
GGTAGACAGGCCTGgTGGGGATCAATGAGTTGGTGCTAGGGCCAGGGCACCTCGACTCTGCTCCATAC  
TG

FIGURE 5B

CACCTTCCTGAAACACCTGTGGCTTTGACTTTGTTATTGATCCAGATTATTCTCCTTGCATTGGGGAAA  
ATATCTTTCATATTTCACTGTAAGGGATGTTTTGCCGAGAGTAAGTTAATGTCAAGACAACTGCCAAT  
ACAAGAGCCCAATGATATTAATTACATGAGAAAAaGTA ACTA ATACATCC

GAGAAAGAAAGAGATGTTTTATTAGCATTTGTTACAGCAACGgTGACGTGAAGGGTCGTCCGTGCACAG  
CCACCCGAGCGGCAAGGCGTAGGCCAGAGCTGACACCCAGTATTTACACGAGTGCAGAACAGGATCACC  
CCGAACCTCAAACAGAAGACTGAAAGTCACTTTACAAAAAGGTAAATAAAAA

GCTACGGTCGACATCACCATCTTTATCCCTTCCAGCCCTTTGCTGGGTCGCGGGCCTTGGGAAGATGCC  
AAAGAGCCGAGCAGTGGTGGTGGCCAGCGGCAGAGTGTCCCTGCTTGGGCCAGGAAAGCTTTACCTTC  
TCTGAGCGCCTCTGCCTGAGAGATCGATGGTCTGTGGCTCTA GGAGACCACGTCTTGGAGTG

poly(T)CCTTCTTTATTGAATGACTTTCAAGAgGTAATTACAGTTGAAGGTGACAAGTTAGAAAGGAG  
AGGTGCCACTGAAGGCATAAGGCTGCTTGTAGACCCGGCTCTAGACAAGTGGCAGGAGAAGAAAGAGGG  
TAAAAAAGGCATGAGCGTGCAGCCACGGGGCA

GGCAGCACTCCTATTAACCTGGAACCTACTGAGGTTTCCTCGTGAATTAGGGAACAGAGAAACACgt  
tCCACGAGGGAGCCTCCAGGTCTAATTACCTGCAACCTCGCTGTACCTTGCTGGCGAGGAGGGAGCCAC  
CAATAGCAATTACTAACGAATGGCTGAATTTCTTATAAGACCTAGGGAACCTGATGGGAACTGAATT  
GCTAA

TTTTTTTTTTTAATTTTTTTAAACGTTTATTTATTTTGGAGACAGAGAGAGACAGAGCATGAACGGG  
GGAGGGGCAGAGAGAGAGGGAGACACAGAATCGGAAGCATGCTCCAGGCTCTGAGCCCATCAGCCCAGA  
GCCCAGCGGGGCTCGAACTCACGGACTGTGAGATCGTGACCTGAGCCGAAGTCAGACGCCCAACCAAC  
TGAGCCACCCAGGCGCACCATC

CCAGGTGACAGGGAGCCTGCAGGGAGGGTCTGGGTGTTCCAGGAGCCAGGGGAAGTGGGAATGGTGCA  
GGCAGTATTGGAAGGAAGGCCAGTCAGTGGGACTGGCAGCTCAGACAGGCAATATGGGGAAGCATTGGA  
GCTTGAGTCTCCACTCTGGGGTTAGGGGTTTGCACACTCAGCAATAAATAACTGTGTACACCAAATC  
CTAAATATATCACTACAAA

FIGURE 5C

SEQ. ID. NO.: 25

>pKVC79R

poly(T)GTGTTAAGTGGTCTTTATTGGGGTGTCACATTAGGTTATCTTCTTCATTATCAGTTCTTCAG  
TTAATTGTACAAGTATGATAAGTTATTTTATATCTGACGTGGGAATTTAAATGTAAAATAAATACAAAA  
TACATCTGTGGTTTAATGAACACTCAATGAAGAC

SEQ ID. NO.: 26

pKVC30:

ACAACAACCTGTTGCAGGTGCTTTTGTGTGGAGTGTGTGGATCTGTTGGTGGGGCCGGGGGGCCAGGAC  
TCAAGGAGGACCCCTGGAACCTGCTACATGTGCGGGCACAAGGGCACCTACGGGCTGCTGCGGCGGCGGG  
ACGACTGGCCCTCGCGGCTGCAGATGTTCTTTGCCAATAACCACGACCAGGAGTTTGACCCTCCGAAGT  
TTACCCA

SEQ. ID. NO.: 27

>pKVC7R

poly(T)ACACAGAACAAGAAATTTTATTATCTCGAATGCTGGTGCATAAgCAATAACAAGCTCATCAA  
TTAGAGGAGGAGACAGAGGGAACTTCAGATACTGATGAGGATTTCTGGGCAGGTTTAAACCTTTAA  
GATTGAGGCCATAATTGTTcAGTCTTTTTTT

SEQ ID. NO.: 28

pKVC32B:

CCTTGCCAAGGCCGAGGCTCCACAGGAATCAGAGTTGGGACGACNNNGAAGGAAGCGTTTGGCTTCAC  
ATTCTAGAGAAAGAAGACCCTACTGGGCTGCAGACCCCTCCAGGGCTGTAGGAAAGCTGCTGGACCTCT  
TCTGCTTCTCCCCAACCACTCTGCCACTCTGCCAGTTACCAG TCACCAG

SEQ. ID NO.: 29

>pKVC45BR

TTCAGAATACTGTTTTTTTTTTTTTTTAAATTTGTTTTGGTTTGTGTTTTGTTTTAATTTAAAGAAAGGT  
ATTTTGCTTGAGGAAAAATACTCCAGATTCATTTTAATGAGAATCTTTGAAATGTATTTATCTTTAGG  
GCATTTGGGGCAACTTTAATGCCTGTTGGCCTCCGGCCTCCTGGAAATAAAAGGTCCAACGG

SEQ ID. NO.: 30

pKVC34B:

CCTGCCCCACGCCATCCTGCGTCTGGACCTGGCTGGCCGGGACCTGACGGACTACCTCATGAAGATCCT  
CACAGAGCGCGGCTACAGCTTCACCACCACCGCCGAGCGGAAATTGTGCGTGACATCAAGGAGAAGCTC  
TGCTACGTGGCCTTGGACTTCGAGCAGGAGATGGCCACCGCCGCGTCTCGTCCTCCTGGAGAAGAGCT  
ACGAGCTGCCCCGAC

SEQ. ID. NO.: 31

>pKVC89BF

ATTGTGATAGAAGACCACGGTGGGTTCANCAANGTTGAAGNAGTTCCGCNTTTCCCTCCGGGGGAAAG  
GTTGTGATGTCTNTTGGTNNTAAGTANTACCCATNCATTGTTGACAAGGNTCANTCCCGAAGGGTCA  
TTCTTGAGTAGTAGACCAATATTNTAAAAATAATTTNAATCCTT

FIGURE 5D



SEQ ID. NO.: 32

pKVC34:

AATTGAGAAAGACATAATGGTTATGGCATTGGCTTGAAACCAGTTAAAGAGGGTTCGATTCCTTCCTTT  
CTTATTTTAATAGTACGTAAGTTGGCTCTTCAAATGTGTGGTACGGAGGAGGACATCCATGCAATCATT  
CAAGATTAGTTGTGGTTAATTCTACTATGGCCACTTCTCGCTTGGATGCGAAAGCTTCTCACACTATGA  
AAA

SEQ ID. NO.: 33

pKVC36B:

ACGCTCGTTTTCCAAAGAGAAGAGCGTTGTTTAGAGTAGCGAAATTGAAGGCTGCTTAGGCGCATTGT  
AAAGCTGTTGGGGAAATAACTCCACAAGTTTCGTGAGTGGAAATGTAGTGCTCGAAACACATTCTGCTT  
TAAAAGGTTGTAACAAATACAAACAAATTTAAAAAAGCTCT CGAAAA

SEQ ID. NO.: 34

pKVC43rB:

CTGGAGCGCAAGTACTCCGTGTGGATCGGTGGCTCCATCCCGGGCTTGGTGTCCACCTTCCACAAGTG  
TTGATCACACAAGCCGGAGTACGCGCGCGTTTCGGCCCCCTTCATAGGCCACCGCAAAAACCTTTTAGGC  
GGGCTCTTACNTTAGAGGCGGTACACACCTTCTTG

SEQ ID. NO.: 35

pKVC73:

TGGGCATCAAATGAAAGAGATACTTGCAAAGGCTCTTGAGGGGCAGGGAAAGGAAAGGAGGACTGTCTG  
CTTTGGACCCTAACTGGACAGGGACTAGGTATTTTTGATGTTTCATAAGTTGTCCTGCTCTAAGTTCAT  
TTGAGTAGCAGACCTGACAAGCATTTGAGGTCAAACCCTACCATGTGTAAAAAAAAA

SEQ ID. NO.: 36

pKVC79B:

GTCTTGATACAAAGCTTCTGTGCTAATCCAGACTATTTAGGCAGGGGCAATAGGGTGTAATGTATCT  
GCTCTCTTCAAACGCGGCTAANGNTCTAGTCCATGTCCNCCNNGCAACCNCAANATCCCACNAGGGG  
GNAGNTCG

SEQ ID. NO.: 37

pKVC81B:

CCCAGGTGAACAGGAACAGGTTTTCTATAAAAAACAACAAAAATCCTTGCCATTCATTTCTTACTT  
GNATGTGGAAAAATAGATCCGCCTTTATTGNTGAATAGCCTTAAACTTTTGGAGAATATTCCTTAGNA  
AATTAGGGGGGGNGGGGC

SEQ ID. NO.: 38

pKVC83B:

CATCTAGATANTCTTGGNGATTGGGGCCTCTAGNTGATTGCTCGAGCGGCCGCCAGTGTGTTTTAAAGA  
CTGGCTCAGGGCCTGTGCGAGGTGCTGCTGGTGGTGACCAAGGAGGTGGAGGAAAAGGGCTGCTGGNCT  
GCGGNACAGTACTGACCCCGCGGAGGTAGTAGCAACCAGGTCCACCGTACCCCTGCGAGTCCCCCGCTG  
CCAATCCCC

FIGURE 5E

SEQ ID. NO.: 39

pKVC87B:

CCACCAAGAAGCTGGACCTGTGGATGCTGCCTGAGACACTCATTATCCACCTGAAGCGCTTCTCTTACA  
CCAAGTTCTCCCGCGAGAAGCTGGATACCCCTTGTGGAGTTTCCCATCCGGGACCTGGAAGTTCTCCGAG  
TTTGGCATCAAGTCCGTAGGAACGAGTCGGCTCCGGAGCTGTACAAATACGCATCTCATCGNGGGNTNC  
CATCNCATTNATGGGGG

SEQ ID. NO.: 40

pKVC104fB:

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGGCGCCAGTGTGCTCTAAAGCCAAAATATATTTGA  
GCCAAATGTTCCGAGGATGAGTCAGGCTGTCTTCGGGGGCAGNAAAGGCTTCACACGGGACAAGTGGAT  
GGNTTGGAGGAATGNATGNTCCGCAACCATGGGCT

SEQ ID. NO.: 41

pKVC104:

CTGACTGGCCCAGAATTTTTGAATACTGGAGGCAGTCTCATTGGCCTCCCTCATTAGACTCCAGGATTC  
GGTCCAGCCCAGAGCACTGTGGGCTCCTACCAGTCCAAAAGTCTAGGACCGCTTGCAGACCCAGGAAA  
GGAATTTTCTAGTGTTCTACAAAGGCCAATAGAGAGGGTGGGAGTGGGTGGGGTGAGGACCGGTGGCGA  
GAGGGG

SEQ ID. NO.: 42

pKVC109B:

GCCAGATTTACATAAGAACATGCTTAACAGACGATCTTTTAGCTGACGTCTTACCAGNAATCGCCCAAG  
TCCGCACGGTAAGTAAAGAGGAGGCCCGCCAGGTGAGAGTTTGCTTAGCAATAGGGTCAGGTCACTAAA  
ACTGTAAATCCATTGCGAGAGGGGGACGCCTCCGCTCAAGCT TGGCTGGGCTTCGGC

SEQ ID. NO.: 43

pKVC89B:

GTCAAAGAGACCAAATCCCATATCCTCATCTGATTCTCCGACTCTTCCTTTGCTTCAACCTTGGCTGG  
GGCTGCAGCAGCAGCAGGTGCAGCAGTGGTGGCAGCGGCCACGGGGCAGCAGCCACAAATGCAGATGG  
GATCAGCCAAGAAGGCCTTGGACCTTTTCAGGCAAGTGGGGAAGGTATAATCAGGTCTCCACAGGACAA  
AGGCCAGGACCCGCTTATTTTCCATTGGATGGATAGGAATGGGGGGCACTGNATGCAAACAGGNCGGGG  
TTNACCCTTTCTTGNAGGACCATT  
TCA

SEQ ID. NO.: 44

pKVC115:

GCGCAGGCACAGCTGGTGAGGGGCGAGGCCGAGACGCCAAGGTGGCCACCATGGTCCGGAGTGCCTGC  
AGGTAGTGGGCTTCGTACGAGCTTCGTGGGTGGATCGGCATCATCGTCACCACGTCCACCAACGACT  
GGGTGGTGACCTGCGGCTACACCATCCCCACCTGCCGCAAGCTGGACGAAGTGGGCTCCAAGGGGCTGT  
GGGCAGACTC

SEQ ID. NO.: 45

FIGURE 5F

pKVC20fB:

CAAACCCATGCATACCACATAGTCAACCCTAGCCCATGGCCACTTACAGGAGCCCTTTtCAGCCCTCTTA  
ATAACCTCAGGCCTGGCTATATGATTCCACTACAACCTCAACACTGCTGTTAACCCTTGAATAACTACC  
AACCTACTAACTATATATCAATGATGACGAGACATTATCcgAGAAAGCACATTCCAAGGCCATCATACA  
CCTATCGTTCAAAAAGG

SEQ ID. NO.: 46

pKVC7B:

GCGCCCGCCGCGTCGCGCCGCCTCACCGCCGTACCACCCGCCGCCTCCTCTGCAACCTCAGCCCACCGG  
GGCACCCGGCCAGGTCACTGGCGGCCAGGCGCAGCTCCTGGAGGAGAATGACCAGCTCATCCGCTGT  
ATCGTGGAGTATCAGAACAAGGCCGGGCGAATGAGTGCGTCCAGTACCAGCATGTGTTACACAGAAAT  
CTCATTTATTTGGCTACCATCGCAGATGCCAACCCC

SEQ ID. NO.: 47

pKVC92:

AGACCAGCCGGTGACAACCACTAATCAAGTTCCATAACTATATAGCGCCGCAATTCCCATGGCCTCCTC  
ACTAAAGAACCCGTGAGTCACCTGTATCATAAATCACCCAATCACCTGCACCGTTAAACTTAAATACGAC  
TTCTACCTCATCTTCCTTTAAATATAACAAGCAGTTAATAATTCTGCTAACACCCCGTAATAAACAT  
TGCTAGTA

SEQ ID. NO.: 48

pKVC8: TGAGGTTGATTATTGTGGTGGTATTGTTCACTGTGTAGAAATAGTAGGAGTA

GATTTAAATAGATTGTTTCAGTTTTTAAATATTAGCCATAGAACTGGTTAGTATCTCAGTAGTTTCATGAA  
AGCTTTTCCTGTATTCTAATCTATTTTGAGAAATTTTCGTCCTTTTTTTTAAATTGTGTCTTACAGTTC  
AAGTTTGTAGATTTTAAATAAGCAACAATTTTTAAAGATGCGGTAATCTTCCAATAATTTTATCCATC  
TTTCATGGCCCCACAACCTGCATCTTTAAT

SEQ ID. NO.: 49

pKVC8B:

CTAACTGCATTCTCTCCTCGTTCATCCTTTGGGGCTGATTGATGAGCCCCTTATTTCTTATCTCTAAAA  
ATCAACAGCAAGGTCTACTTCACATGGCCACTCCAGTCCTTTGAGCTATAATCAGGATTATATAACTTA  
CCCTCAAATCAAAAGTTAAGAAAAAGGAAGCCCATAAGCTAAGGCACTGAATCTTTTCCTGACAATTC  
TAGAGGTAGAATTTTCATCATGCTGCAGAGAGAGAGAGAGAGAGAGAGAGAAGGAGGGGAGGGAAG  
AGAAATGAAAGAG

SEQ ID. NO.: 50

pKVC14:

ATAATGGTTATGGCATTGGCTTGAAACCAGTTAAAGAGGGTTCGATTCCTTCCTTTCTTATTTTAAATAG  
TACGTAAGTTGGCTCTTCAAATGTGTGGTACGGAGGAGGACATCCATGCAATCATTCAAGATTAGTTGT  
GGTTAATTCTACTATGGCCACTTCTCGCTTGGATGCGAAAGCTTCTCACACTATGAAACTATTAACAT  
GACTGCTGTTAATGAGATGAAAGAGCCCATTGAGGAAATCGTATTTCAAGTTGTATATGCATCTGGATA  
GTCAGAATAAC

FIGURE 5G

SEQ ID. NO.: 51

pKVC16:

TGGTGACACACGTCTTTCAGTCACCAAGTGGAGATCACCAGGAGCATCAGCAGGAAGAGCCAGTGGGCCC  
ACAAGCTTAGCAAGTTGATCAGGATAGGGTTATTTGGTGGATAGACCATGAGTGTGAGGGACCTCCAC  
TGGACACCACCCAGAGGCTCAGGATGCTTTTCGAGGGAGGAAAGGAGAAAGACCTCTACTGAGGGAAC  
AGCTGGCCGTGTGTGGTGGGCTGAGGTGACGTACAGGGGCAGAGCTTTCGAGGGATTTTCAGATGATCC

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FIGURE 5H

SEQ ID. NO.: 52

pKVC20rB:

TAAATAGAAACGTATAGAATAGTCAAACCTACGTCTACGAAGTGTCATATCAGGCGGCGGCTTCAAATC  
CGAAGTGGTGATTTGATGTAAAGTGATATTTTAGTTGGCGTAAGAAGCATACAATTAGGAAAGTAGAGC  
CAATAATTACATGTAGCCCATGGAATCCTGTGGCCATGAAGAAGGTAGATCCGTATACTCCGTCCGAGA  
TCGTGAATGATGTTTCATAGTATTCTGGAGGCTTGAAGGAGTGTAAGTAGACTCCTAAAGAGATTGTA  
ATAAATAGTGCTTGAAG

SEQ. ID. NO.: 53

>pKVC59BR

poly(T)GTTTTTGTGTTTTAAAAATGAGTTCTTTTAAAACCATGTCATACATTCCCCATACTGATATCG  
CATGACCCNTTANAATAAAGGCAGGGGNTTACTAATGGGGGGGCGGGCCANACCCNCCATCGTTTCA  
GCCAGACAGTTCAACCCGGGGNNCCTTGTTCTGCGGACCTCCGGGGNANGCCTTTCCTTTTCCAAAAA  
GGGGGCCGNTCGGAGNATGNATNTNGAGGGCCCAATTAG

SEQ ID. NO.: 54

pKVC21B:

GCGCTCTGACCAGGCATCAGTTTTCTGGTGCTCTCTGGGCTAGCCTGGTGATGTAGGGCCAGGCAGAC  
AGGCAGGCAGGGGCTGAACAGGGTTTTCTCTGCTCCAGGAAGACCAAACACAGAGGACCTTACAGGCAGG  
AACCCACAGACTGTCCCAACCCACACACTCCACCACCTGTGCCCTGTCCCATGTCTGAGCCAAGGCC  
TGAGGTAGAAAGTCACCTGATCCTGTATCTCCATAGGGGCCTGACTTT

SEQ. ID. NO.: 55

>pKVC61BF

poly(T)CCCNAGNGCACACNGGNGGCCNTAANNAGNGGNTCCNAGCNCGGNACCNAGNTTGAGGCATA  
GCTTNAGNATTCNATAGTGNANCACAAATAGCNTGGGGNAATCANGGNCAAAGCCNTTCCCGTGNGAA  
ATTGTNATCCNNTCANAATTCNCACAAANATACGGGCCNGAAGCATAAAGNGTAAAGCCCGGGGGGCC  
AANGNGGNGCNAACTCACATTTAATNGCG

SEQ ID. NO.: 56

pKVC23:

GGGAAATGTAGTTTGGATGCAAAGCTGATTAAATTGGATCAAGAAAAATTGGAATTAAATACATACAAT  
AATGCATGCATTTATGGTTTCGATTTTATATATCCTTAGCTAGTTGGAAATGATGATTCCCACAACAA  
GCATAACTCAGCTTGTTTCTGCTTACTGAGTACTTTCTCCTATGGTATATGTTGATAACATTTCTTCCA  
TTATGTATGTTGCATAcgAGAGTTACAGTTACT GTGGAATCATAATTTT

SEQ. ID. NO.: 57

>pKVC9R

GTCACCATTAATGTCTgAATTTTaAACAGATTCTTGGACTGGTGGCTCATATCCATCAGCTCGCTCAA  
CTTTAGCACCGGTCTCATCCCCAGTAGCTTTTCCAGAACTGCTACCTTCACCATGAAGCTCCATGAGCT  
TTCCCAATTCAAACCTTGGGCTTCTCAGATTTTACTTTTCTAACGAAGTCATCATGAAGTGGATAAA  
TAGACTGACAAGCCTTCTCTATGTCTTTCCGATCTGTCTGGAATCAATTTATTGACAACCTTCTTCAA  
GTCA

FIGURE 51

09301507 104289 668240 405T0560

SEQ ID. NO.: 58

pKVC28B:

TCATAGCATTCTTCTGCTTCTCCTGGATTATGTGCTACAAATGTGCTTTGGCTTTAGAAAGGGATGGA  
TGAGAAGACAGAGCTGAGATCAACCTGGGTAGAAGCAGAAAGTTAAACCCTTTAAAAGTGCTGAACACA  
GATTCGAATCCAAATGGTTCAAGCAGCCATGAAATCGCTCTTCATGAAGTGGGCTTAATTCTCTAGTTT  
AAGTTCTTTTGATGGAATGAATTAATTAATGTGTCAGGTGGCTTATTTGTGGATGCATGATTGATGATG  
TCATT

SEQ ID. NO.: 59

pKVC29:

CGGACCCGGACAGAAAGCAAATCCTGGAGCGCACCCAGCGTGCGGTGGGGCTGGCCGCAGAGCCCCTGG  
AGAGAGCCGTGCGGgNCGGCCTCCCGGCAGAGGAGGCCGCCCGCTGCGCAGAGGTGTTGTTGGAAGAAG  
CGAAAGATTTGCTCTCCGACTGGTTGGACTCCACCCTGGGCAGCGAAGTTACGGACAATTCTATTTTCT  
CCAACTGCCCAAGTTCTGGGAAGAAGAATTCCACAGAGACATGGAAACCCTGAACGTTCTCCCTCCGG  
ACGTCCT

SEQ ID. NO.: 60

pKVC38:

CGAATCTGTTGTAGCAGTTTCAAATGATTGTGTGGATATTGGATGTTTAACCTTTACCATTTGCTTTGT  
ATCGACACATTTTTTCATTTTAAGTGTTAACTCATGTACTGTTTACTTTAGGAATAATGCAAATCCAACC  
TTCATCCAGTGATGAGAATAGCAGTATGATAGGAATTTGCTCAATGTGCTTTAAATGAGTAATTGCTTT  
ATCTTTTTTAGTATCTGATAGACTTTGCATGACACGGTACACTCCTAATTATGCATTCTTTAGTTTCCA  
AATCTTAACCTAAGACATTCTATATTAATGATGGGTAGCTGAG

SEQ ID. NO.: 61

pKVC48B:

GGTTTTGCAGGGGCAAGTGGGGCTGGGCCCCGCTGGGTGAGAACCCCGCCGCACACTGCAGTGGGTGCC  
TGGACCCCGCAGCAGCGCTGAGCAGACGGTGGACTCTGGGCTGTGGCCTTTCTTGGGCCCCACTGGGGCC  
GGCTCTTGATATAGCTGGGGCTCATGGGCATGACCCCTTTTTTAAACCTTGGGTCTTAGGACACCTG  
GGTTTACCCTCAACTAAGGGAGGGTGGGAAGGGATTACTTGGGGTCTCAATAATTTACGATATCCCT  
TTAAGGTTGACCATTAAACTGTCCCA

SEQ ID. NO.: 62

pKVC51B:

CCTCTTAATAACCTCAGGCCTGGCTATATGATTCCACTACAACCTCAACACTGCTGTTAACCTTGGAAT  
AACTACCAACCTACTAATATATCAATGATGACGAGACATTATCCGAGAAAGCACATTCCAAGGCCA  
TCATACACCTATCGTTCAAAAAGGCCTTCGATACGGAATAATCCTCTTTATCATCTCAGAGGTATTCTT  
TTTCGCAGGCTTTCTTCTGGGCCTTTGTTACCACTCAAGCCTAGCCCCAACCCCCGTAGCTTAGGGGG

SEQ ID. NO.: 63

pKVC53B:

FIGURE 5J

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SEQ ID. NO.: 69

pKVC69:

TGGCTGTCATCTGGAGGCTTCTGCCTCAGCTCCTGAAGGCTGCTCTCATTCTTCTCGCGTGCTCCCGT  
CCATCTTCAAATTCTCAATGGCCCATCTTCTCACGCCTCCCATCCCTCTGCCTTCTTCTCTGTTTTAA  
GGTTCATGTGATTAGATCAAGCCCACTGATCAAGTCTCCCTATTTTAAGGTCAGTTCTGCCATAGAACA  
TAACATAATCACAGGAGTGACTGCACAGGCACGGGTCTCTGGGATTGGGCATGGAGTTGGGGG

SEQ ID. NO.: 70

pKVC74:

ACGCTAAGGACACCTTTTTTGTCTGACCTGATGTTATAGATGGCAACACCAAGTTCTAGAGCAATT  
GAGAGACTTGTCCAAGGTCACAGGATGGCTTCACCTCAGCCAACTATATAGTTGCAGTGACAGTATGTG  
TGCTCTCTGAGGGGTACTGAAAACCCCTGTCAAATATTTCTGTGGACACTCAGCCTTTAACTCCCA  
AGCCTCATGAAGAACTTATTGGGGGGGGGGGGCGCCTAAATAATTAGTCGGTTGAGCGTCTGACTTCG  
GCTCAGGTCATGATCTCACAGCTC GTGAGTTCGAG

SEQ ID. NO.: 71

pKVC86:

TGCCTAGAATCATTGTTCTGTGTGGAGGTGTTTTGTTTTGATAGAAACCGGCCAGTCTTGAACCAGAAC  
GAATGTTTCCCTTGTCTAATGTTCTCACAGAGAAATGGACAAGCGTTTTACAGGTATAAAAGGCACAAG  
GAGGAACCTATTTTTGGTCAGAGCATTGGGGAAGTAAATCACAAGGCAAAATAGATCTGTTTGTGTTT  
GTTGCGGGAGGAAGTATTAATAAGCAAATCAAATGCCTTGTATGATCTCCAGTGTTATAATTATAGATC  
CTAACTTTGCAAATACATGTAG

SEQ ID. NO.: 72

pKVC96B:

ACTGGACCAAAATTGGTGTTTGTTTTAACTTGACTCTTCTTTTGATTATTTCTAATGCTACAAGAATG  
CTGTAAAGTGCTTCTACAATGATGTAGCCCTGACAAGACATGTTTGGCAGTGTATAAAAAATTAGGTAG  
GATTGTGCACTGATTGACCATTTGTGAAATCTTTTCTCAGTGGAAGTGCATTCTCTAATAAAATTTAT  
GNAGGTGAAACAATCTTTGGNGCAATGGACCACTCATGCATCCATCCC

SEQ ID. NO.: 73

pKVC97B:

AACAGCCCCACTATCAGCACCCAAAGCTGAAATTCTTTCTTAACTATTCCTTGCCAATACCAGNAAAG  
CAACCCATAACTTTTATAATTATATATTGCATATACCCATACTGTGGCTTGGCCAGTATGTCCTTAT  
TTCCACAAAAAACCAAGTAANAAACCCCAAGTACCACAACCCAAAACACACAATGTAAATCACTCT  
ATTAACCACANACCCACCCAGGTTGGGTATTATACCCCATGGTNCATAAGGACATACTATGT

SEQ ID. NO.: 74

pKVC103rB:

CGCTGCATCTTTTTCTATGCTCTCCCTGCTGGCGCTGATGGGAGATACAGACAGCAAAACGGACAGCTC  
GTNTCATGATCGACTCGGACCCCTCTGCGNCTGCATGAGGGACCACTATGTTGNATTCTATCAGCTCACC  
CGTTGNTACAAGTGAGNCTCAAAGGAAGAATAGTGGGAGTCTTCTGTGAGACCTATCTGAATCCCCGN  
NTGGCCCTGAGNTTCCAGAGGGNCCTGGTGGTCCCATCGCCTAGCAGGGTTCAAGNAAAGGGGCCCGCN  
CATGGCAGTCCTTGGNCAGNAGNAANGGANTTGGNCCCAACCCCNNTGGTTCCCAACCCA

SEQ ID. NO.: 75

FIGURE 5K

pKVC103:

CGGCCACTGGTCATCAGATGAGCATTTTGTGTGTTTGAAGCTAGTAGCTATAGAAAAGATAGTTGTGCC  
CTGATAAAGTAGCTTTTTTAAAAAAGTTTGGGTAGTTTACATTCAAGGGGCTTATGAAGAGATGCAA  
GTCAGGATACATAGGCTTGATTCTTGGCAGCTTAATGAGTCTTCACGAGGCACTGAAGGTGGAAGGGTG  
GAGTCCAGTAACTGCTCTGGAGCAGTGACTTCCCAATTCTGACGATCTCAACATTGTTTCTGAAGGACG  
TTGCCATCTTGGACACAGGAACGTGCTGTGGGGTGCCTGGCAGTGTCTGAGTAGTAGACTT

SEQ ID. NO.: 76

pKVC104rB:

CGCTGCATCTTTTTCTATGCTCTCCCTGCTGGCGCTGATGGGAGATACAGACAGCAAAACGGACAGCTC  
GTTTCATGATCGACTCGGGACCTCTGTGCTCTGCATGNAGGGCACCACTACTGTTGGATTCTTATCA  
GNNCAACCCGCCNGNTGCAAAGATGNTAGACTCCANAAGAGNAAGNAATNAGTTGGGGNAGGTCNTTT  
CCTGCTGNAGAACCTAATTCTTGAATTCCCC CCCC GCCCCCCG

SEQ ID. NO.: 77

pKVC107fB:

ATTACAACATCTAGAAGGCTTTCATCATACGATACAAAGCTCAGTTACAAATGTGCATCCTAGTATTTG  
GAAACTAATACCTCTCTTAATGTAAATGAAAAATTATTTCTTATGTCCTTTTTTCAGGACTCCTCTT  
TTATTTTTTGGTATTTTATCTTTTATGGCCACCTTGGCCTTCTGGCCAATGTGTTATGCAGTGAAAATG  
CTTGTGGGCAGAGGATGCCCTACAGCGCAAAAATACCGCGCACATGGGTTTCCCAGGTA

SEQ ID. NO.: 78

pKVC107rB:

TTTTGTTTTATCCGTTTATTAGTACATGGGCGTCGGGAGGATGATTTACTCATCATCTTGTATTACCAG  
AGGTAGAGCATAATGCCATCTGCTAGGGATCCAGTTCGACAGCACCTCAAAACACTAGTCTGCTCACTC  
ACCCTATAGGGCTTGNTCATTCCACTTGGGATGGAAGACAACAGTGCCTTTAATGCAAATGGGCCCCAG  
GCAAGGAATTAACCATTTGGCTTCATGGCTCATGAAGGAATACAGNCNNATTTAANGCGNGGCAGGCAGG  
AAGCCTTTGNGCTA

SEQ ID. NO.: 79

pKVC124:

CTAAAGTGGCTgAACAGTATACCCACCCCTAGCCGGCAACCTGGCTCATGCAGGAGCATCCGTAGACCT  
AACTATTTTTTCACTACACCTGGCAGGTGTCCTCCTCAATCTTGGGTGCTATTAATTTCACTACTA  
TTATTAATATAAAACCTCCTGCCATGTCCAATATCAAACACCTCTATTTGTCTGATCAGTCTTAATCA  
CTGCTGTCTTACTACTTCTATCACTTCCAGTCTTAGCAGCGGAATCACTATATTATTAACAGATCGAA  
ACCT

SEQ ID. NO.: 80

pKVC24B:

GCCGGGAGCCGGCCTTTGGGCCGNGGGCGGAGAGGCCCGGACGGTCGAGTGCTTCTCCTGACTGGTG  
CGAGAAGAACATTTTCTATATACTTCCAGGTGCTTTTATATTCCTTTCGAGAAGAAAATAAAATTATGA  
ACTCAGGATTTTGCAAGTATTCTGTGTTTCTCCTGGAGTAGGTAGTCCTTCTTCTTTTACCCAGCCACT  
TTCCCTATTCTTGAAATGTGGATCTCTTCTCTACATGTTTTACCTCCATGATTTGGATTGGAAAAAG  
CTGCTTTTCTTTTGGTTCCACTTTTTCAGATTCAACATAGAGAAGCTCCTAGGATGCAGTCGTCTTTCTG  
AAGCGCTTCCAGGGAAGAAAGAAAGAAACT

FIGURE 5L



668240 40510560

SEQ ID. NO.: 81

pKVC25:

AGGTCTTAANCCCAACCCCGTCCCACCCACAGGGTNCCAGCGTGGTGACTACAGGCGACCCTCCCTATG  
TCGGGTCTAGAACGCCCCAGCTGGAACGAAGGGAAGAAGCTAATTACAGTGTCTTCCTTTGCACTGAC  
CNNCCCCCCCCCGCCCCCGCCACCAGTTTCACTCCAGGAGGGGACTTGTTAGCCCGTAGCCCATCTT  
CCCCACTATCCTGGCGTGTGGGCTCGTGAATGCCTCCTAGCCAAATCACTAGAGTGCAGTGACCCAG  
CCTCCTTCCTGTGCCAAGATG

SEQ ID. NO.: 82

pKVC40B:

GCAACAAGGAATGAGACCCCAATGCCGCCTCATGGTCAGTACGGTGGTCATCATCAAGGCATGCCAGG  
TTACCTTCCTGGTGCTATGCCACCGTATGGGCAGGGACCGCAATGGTACCCCTTACCAAGGTGGGCC  
TCCTCGACCTCCGATGGGAATGAGACCTCCTGTAATGTCGCAAGGTGGCCGTTACTGATCTTACTTCAT  
CCAATCTAATAGGTTTTGAGATTAAACCTTTTCTCAACTTGTGCTGGTTTATATAGCCAAGCTTCCGTC  
AATAAGGCTTTATTGTTGACTTTAACAAACATTATATTACCACATACCAGGGACTATTGGACAATTATT  
TTACAAGGGGAAAATT

SEQ ID. NO.: 83

pKVC43fB:

CCTGGCTGCCTGTGCCTCAACCCCACTCCCAGGGAGACCAAAGCCTTCATACATCTAAAATTGGGGGG  
GGGGGGGGGACAAAAAGGGGGGCCACGATGGCAGACCATTGAAATAAAACAAAAAGACCAAGTTTT  
AAGGCGAGAGTTTTAAAAAAATTTGGACTACATAATTTACACCAAGGCAATGTTATCACCTGCGCCTG  
TTTGGACTTGGGCGGGGACTGGCCCTTCTCCTCAGGGGGAAATGGGGTGGCTTTTGGGAAGGCAAGGGA  
CTTCCTGTAACAATGCATCTCAGGGTATTTGGAATGACTATTAATAAAAAAGGGCCAATGTTACAGTC  
AAGGTCCTGGGCCCA ACCTTGGAACTTTTGGGGGT

SEQ ID. NO.: 84

pKVC55B:

CCCAAACATCTACAAACACAACCTAACACCAGAAAAATAAAACAAAACATTTAGTCACCTTATAAAAGTAT  
AGGAGATAGAAATTTAACTTGGCGCTATAGAGAAAGTACCGCAAGGGAAAGATGAAAGATAAAATTTAA  
AGCACCACACAGCAAAGATTACCCCTTGACCTTTTGATAATGAGTTAGCTAGAACAACCTAACAAAG  
AGAACTTCAGCTAGGCCCCCCGAAACCAGACGAGCTACCCATGTACAATCTATTTTCAGGGGTGAAACTC  
CGTCTATGTTGCAAATTAGTGAGAAGGTTTTTGGGTAGAGGTGAAAAGCCTATCGGGCCTGGTGGTAG  
CTGGTTGCCCCGAACCGGATTCTTAGTTTCACCTTTTAACTTTTCCT

SEQ ID. NO.: 85

pKVC57B:

GCGGAAGCAGTGATCCTCCAGCCTGCAGAGGCCCTTCCCCAGCCTGGCCCAGCTCCGGCCCGGCCCC  
GGGCTGGACTCCTCTACAGATTTATTTGACGTTTTATTTTGGTTTCCCCACACCCCTCAATCTGT  
CGGGGAGCCCCTGCCCTTCATCTTGCTCCCTTGCCAGGAGTGAGTGACCCATGGCCTTGCGGAAATTG  
TCCTCCTCTTCTCCCTCGCACTACAGTCTGGTCGGGGAGAGGGTGGCGGGTGCTGCTTGTTGGTTTAG  
TGGGTTTTGTTTGGTTTTTTGTTTTCTTTCT

FIGURE 5M

SEQ ID. NO.: 86

pKVC60fB:

AAAGGGTGGGGCANTTGATGCTGGTTTCTTCTCTGCGTTTTCCGTAATTCCTTCTTACTAGGGCTTTA  
TAATTCTAATTTTTCTTGGTTAAGTAGTAATATAAAACACAATCAGGAACACTCTTTCTTTCCAAGTAG  
GATGCAATTAGTCCAAAGTTTTTTGGATGCTGGATAAACTTGTCTTAAAGATCTCCTTCTCGTGGTCA  
GTCCAAACATTCATAAACTGCCTATCTTTATAAACTTTCATAGGATCTTCCATGAGTCCATTCATGTTG  
ATGAATTTGACTCGTCTCTGTTCTGCATCAAACATCATAGGTGGGATCACAGAGAGTTGCCGCATTTGT  
TTCTCATTATTTCTCCTTCTCAGAGAGCCCATCAATAATTTTCAG

SEQ ID. NO.: 87

pKVC60rB:

GTTTCCAGAAATTCGAAAACAAAGAGAACAACAAGAAAGGTTTCAGCGAGTTGGGCAGAGGGGAGCTGG  
TCTTTCAGCCACGATTGCTAGGAGCGAGCATGAGATTTCTGAAATTATTGATGGGCTCTCTGAGCAGGA  
GAATAATGAGAAACAAATGCGGCAACTCTCTGTGATCCCACCTATGATGTTTGATGCAGAACAGAGACG  
AGTCAAATTCATCAACATGAATGGACTCATGGAAGATCCTATGGAAAGTTTATAAAAGATAGGCAGTTT  
ATGAATGTTTGGGACTGACCACGAGAAGGAGATCTTTAAGGACAAGTTTATCCAGCATCCAAAAAACTT  
TGGGCTAATTGCATCCTACTTGGGAAAGAAAGGGTGTTCCTGATTGTGTTTTATATTACTACTTAACCC  
AGGAAAATGGGGATTATTAAGGCCTAGTAAGGAGGGATTTACGGGAAACCGCAGAGGAAGGAACCCGC  
AGGCAATTGCCCCCCTTTGG

SEQ ID. NO.: 88

pKVC63B:

CCTACCCGGTTTTGGGATAATCTCACATATTGTTACCTACTATTTCAGGTAAAAAAGAACCCTTTGGCTA  
CATGGGAATAGTTTGAGCCATGATATCAATCGGCTTCCTGGGCTTTATCGTATGAGCCCATCACATGTT  
TACTGTAGGAATGGATGTAGACACACGAGCATACTTTACATCAGCCACTATAATTATTGCCATTCCTAC  
CGGGGTGAAAGTATTTAGTTGACTGGCTACTCTTCATGGAGGTAATATTAAATGGTCCCCTGCTATATT  
ATGAGCCTTAGGCTTTTATTTTCCCATTTACCGTAGGAGGGCCTAACGGGGATTGTACTAGCAAACCTCT  
TCACTAGACAATGTTCTTCACGGCACATATTACGTGGGGGGCCACTGTCACTATGGCTTGTCATAGGG  
GCAGTATTCGTATCATAGGGGGGTTTCGTCC

SEQ ID. NO.: 89

pKVC64B:

GCAATCCTGGCCTGGGGGCCTGAGGCCCTTCCCCTGCTCCAGGCTGTCATCTCCTGCCTCCTCTCCTCC  
GGCCTCCTCAGTTTGGCCAACTGCAATTCATTTGAGTTACTGTTTATGCTAAGCATGTACTCCTGACTT  
GTCACTGACTTTCCTCTGGAGCAGGTGGCTAGAAAAAGAGGCTATGGGTGGGGGAAAAAAATGTTCTGT  
TTCTCACTTGTAAGGCTGGTTTTTGGCTTTTCTGCCATGGGATTCTCCCCCTGACCTCTCCCCTCAGCA  
ATTCTGCAAAGGGTTAAAAATTTAACTGGTTTTTNACTACTGATGGACTTAAACAACACAAAGGATG  
CTGGGATGCTAACTTGGTTAACTAAACCATCAAGGTTGTACCAAGTTTGGATTGGTAACTGGTNAAAT  
ACAAATA

FIGURE 5N

SEQ ID. NO.: 90

pKVC66B:

CGTATGAGGCAGTCCCCTGCTCGCCCCATCCCCACTGTCAGGTCTATGGGTCCGTGGGCCAGAATGGG  
GTGGAATTGGGTTGAGGGAGGGACAGCCCTGGCTGACAATGATATTGGTGTAAATCAACATTAACCGAGC  
CGGCTTCAGCTTACCTCAACCCGGGCAGGACACCACCACCTTGAGAAACCACAAGCTGGAGCGACCCTC  
AGGCCCTGCAGGCCTTGCAAACAGCCCTGGGTGGACCCACACCAGTCCCTGTTAGCCAGCTAGGCCCA  
GTCTTCCTTCAGCACCACTTTTATCCTGGGCAGGTTTCTGTGAGGTGGAAGCTGGTAAAAGCGGGTC  
CCAGCCAAGGGCTTCAGGTTCAGCGCCAGCCAGTAACCTCAATTCTTAACGGTGGGCAGGA

SEQ ID. NO.: 91

pKVC82B:

GCCACCTGACCCTCCTAACCCATGGCTGTCTGATGATACTACTTTCTGGGAACCTGNAAGCAAGCAAAG  
AACCAAGTCAGCAGAGGGTAAAACGATGGGGTTTTGGCATGGATGAAGCATTGAAAGACCCAGTTGGGA  
GAGAACAGTTTCTTAAATTTCTAGAGTCAGAATTCAGCTCAGAAAATTTAAGATTCTGGCTAGNCAGTG  
GAAGNACCTGAAAGNAAAAGGTCTAATNAGGAGAAAGTTCCCTTTCCCGGAGATTGAGGAAAATATGG  
GCAAAGNAATTTTCTTGGGCTCCCTGGGAGGCTTCCCAGNTGCCCAATCCAAACCTTGGGGTTTTCT  
NAAGGAGGCTNATGGATT

SEQ ID. NO.: 92

pKVC110

GAGAAAGACATAATGGTTATGGCATTGGCTTGAAACCAGTTAAAGAGGGTTCGATTCCTTCCTTTCTTA  
TTTTAATAGTACGTAAGTTGGCTCTTCAAATGTGTGGTACGGAGGAGGACATCcATGCAATCATTCAAG  
ATTAGTTGTGGTTAATTCTACTATGGCCACTTCTCGCTTGA TGGCAAAGCTTCT

SEQ ID. NO.: 93

pKVC134: Homologous to human alpha tubulin; Accession HSHA44G

CCGCCAGTGTGCTCTAAAGTGTGGTACCCTGGTGGAGACCTGGCCAAAGTACAG  
CGAGCTGTGTGCATGCTGAGCAACACCACAGCCATTGCTGAGGCCTGGGCTCGC  
CTGGACCACAAGTTTGACCTGATGTATGCCAAGCGTGCCTTTGTTCACTGGTATGTGGGTGAGGGCATG  
GAGGAAGGAGAGTTTTCTGAGGCCCGTGAGACATGGCTGCCCGTGAGACATGGCTGCCCTTGAGAAGGA  
TTATAGGAGGTTGGTGTGGA

SEQ ID. NO.: 94

pKVC108: Homologous to Mouse Initiation factor eIF-4A;

Accession MMEIF4AL

TCTTCTCCCAAAAACACTAATCCATGTCCGTAACCCACTCAGCCTCCAGACCCAGAGGCTCTCCCCCA  
CCCAGCTGCCACCTCTAAAGAGGATTCAAGGGGCTATAGTGTcACCCAACCTCATTTGCTGGACCAA  
TCTGGAGAACCcTTGAGCTAGGTGGCCcATGGGgTTGTCCcAGGTGGGGgAGCAGGGGAGAGAAAATG  
GTAGCCATTTTACATTGTTTTGTATAGTATTT ATTGATTCAGG

FIGURE 50

SEQ ID. NO.: 95

pKVC105B: Homologous to Human mRNA for proliferating cell nuclear antigen associated protein; Accession HSPAG

GTCAGACACAACCTTTCTGAATCCTCTNAGGANGGTGATCCAGTTCATGAANATTCTCTGTAAAATNANT  
NTGGNAACTANATNAGTGNNGATNCAGGTCTNGAGNNTCTCCTTCCAGTGNCTAAAAAGTNCACAGAN  
GNCAGGAACTNCCTATCTGCATGCAGTCACCAGTTCTCATNC TCTANGCA

SEQ ID. NO.: 96

pKVC92B: Human Mitochondrial hinge protein; Accession HSHINGE

CCCAGCCTTCATGAGCTGGTCATCAGGATACTTTCTTATGGGNTNGANCATGCCANTTGCTTNTNCGNG  
TANATGTAAGTTCATGNCAACCNCATTTTTTTCTAGCCTNNGGCTNAAGGTNANTCGTCTCNTTANG  
CAGCNGANNCAAGTTGNAGTCTNTCAAANGNNCACAANACCTAA

SEQ ID. NO.: 97

pKVC91: Homologous to Bovine NADH dehydrogenase; Accession MIBTXX

GGGTAAAGTGATAGGAGGAGAAGGGCTGAGTAGGTGGAGGCTATTAGGGCATTCTCGGTGTAAATG  
ATGGGTGATATTTTAAATGTGGTGTGTGATTTGCCTCGTTGAGTTATAATAAGTATGTAGAGGgaGT  
ATaGccCTGTAATGATGATATTAGTACCCATTAGGATAATGGTTATGTTTGATCATGAGAAGGAGGCTA  
TTACTAC

SEQ ID. NO.: 98

pKVC90: Homologous to Human hnRNP core protein A1; Accession HSRNPA1

ACAACCTTTGGCCGTGGAGGAACTTCAGTGGGCGAGGTGGCTTTGGCGGCAGTCGAGGTGGTGGTGGAT  
ATGGTGGCAGTGGGGATGGCTATAACGGATTTGGTAACGATGGAAGCAACTTTGGAGGTGGTGGGAAGCT  
ATAATGATTTTGGCAATTACAACAATCAATCTTCAAATTTTGGACCCATGAAAGGAGGAAATTTTGGAG  
GCAGAAGCTCTGGCCCCTATGGTGGTGGAGGCCAATACTTT

SEQ ID. NO.: 99

pKVC86B: Homologous to Rat Ribosomal protein S27; Accession RRS27

GCGAAGGACCTCCTGCACACGTCCCCGGAAGAGGAGAAGAGGAAGCACAAGAAGAAGCGCCTGGTGCAG  
AGCCCCAACTCCTACTTCATGGACGTGAAGTGCCCGGGGTGCTACAAAATCACCACCGTGTTTCCCT

SEQ ID. NO.: 100

pKVC82: Human Carboxypeptidase E; Accession HSCARBE

ATCTGCCATTTTAGACTTAAAGGAAATATTCCACGTGTTATTTACGATCCAGAAGTTTTTGAGTAATTC  
TGGCTTTTAAAACTAATGAAGTCCTTTTAGTGTAATGGTAACAGTGCCACATAGTGAATGCCACTGAA  
AAGGTCAACAGCTACATTTTGGTGTTGTGAGCATTATACCGCAAGACTTACATAGTTCAGTATAA

FIGURE 5P

SEQ ID. NO.: 101

pKVC80: Homologous to Rat VAMP-2; Accession RNVAMPB

GGTCCTTGATCACTTTTCATTTGCATGACGTTCTTGACAGGTGGTGGGAGCCTGGGCTTTTGGGGAGCC  
AGAACCTTCTGGCCCCCAGAATCACCCCTCCTAGCCCCCTCTAGTCCAGTTTGCCTCCCCTGCCCCCA  
TTTTCCAAACCTCTTGTCCTCTCCCTCCCTCCCCCTCCCCCAGCTGGTGTGGAAGTGTCTCGGAG  
TTCAGTGTGTATGAAGACAATAGTTTGAAGTGGAGTTT

SEQ ID. NO.: 102

pKVC79: Homologous to Bovine Nuclear encoded ADP/ATP transporter;

Accession BTADTPMT

GGATGATTGCCAGAGCGTGACAGCGGTGCGAGGGCTGGTGTCTACCCCTTTGACACTGTCCGCCGTA  
GATGATGATGCAGTCTGGCCGGAAGGGGCGGATATTATGTACACTGGGACGGTGGACTGCTGGAGGAA  
GATTGCAAAGATGAGGGAGCCAAGGCTTTCTTCAAAGGTGCCTGGTCCAATGTGTTGAGAGGCATGGG  
CGGAGCTTTCGTATTGG

SEQ ID. NO.: 103

pKVC59B: Homologous to Rat scg10; Accession SCG1\_RAT

ACGACTCACTATCAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGGGAAAAGG  
AGAGGCATGCCGCGGAGGTGCGCAGGAACAAGGAACTCCAGGTTGAACTGTCTGGCTGAAACGATGGAG  
GGTATGGCACGCCCCACCATTAGTAAATCCCCCTGCCTATATTATAATGGTTCATGCGATATCAGTATG  
GAAATGTATGACATGGTTTAAAAAGAACTCATTATAAAAAACAAAAACAAAAAACAGAAATC

SEQ ID. NO.: 104

pKVC55: Homologous to Human LAMP-1; Accession HSLAMP1A

AGCATGCTGATCCCCATTGCCGTGGGcGgCCTGCGGGGGCTGGTCCTCATCGTCCTCATTGCCTACCTC  
ATCGGCAGGAAGAGGAGCCACGCGGCTACCAGACGATCTAGCAGGGCTGCGACACGTGGGGCCGGCTGC  
CACTTCCGGTCTCCGCTCGTCCCCTGAGCTTAGGTTGGCGTGGAGGGCGGCACGTTTCTTGCAAACCTG  
ATTTTCAAATCTGCTTTATCCGATGTGAAGTTCATCTTGCAACATTTACTATGCACAAGAGTATTGAAA  
TGAC

SEQ ID. NO.: 105

pKVC49B: Homologous to Chicken Contactin; Accession GGCONTAC

TTCATTATGAAAATATCAATAAATATGTCATTAGTTTACATTCAACTCTTTGTTATAAAATTAACTTT  
TTAATAATAAGTGAAATGGGTGATTTCCCCCTGGAGGGATGTCAACAGGCTTAAATCATTTCCTGGTT  
TCATAAAATACAACTCCTTTGAAAAAGGGACAAAATCTCTTCATACTTTTGGGGAACGGATACTGTGT  
AAGCCCTCTGTACAAAAGTTTGGGGTTTTTATTGTTACACTTTGGGGGTTTCCCTTTTCAAGGGGCCCC  
CCTGTGGGGGGTTTTTTTTTATGCGGGCAACCAACTAAATTTTTTTTCCCAAATGGAATGCCCCGCCC  
TTTTTTTTTCTAATGTTTTTTGCAATAAGGGGGGCCAAAACCGGGGGAGGGTTTTTTCATGAAAAGGGT  
TCCTTAAGGGTGAGGGGGAACACGCTTTGGGGGGGGTTTTTCTTTTAAGTTTGTGGCCCCAGTAGGG  
GGGAGAAAGCCCTCCCCCGGGAAACAGGGTTTGGTTCCCCACGG

FIGURE 5Q

SEQ ID. NO.: 106

pKVC47B: Homologous to Human 71 kD heat shock cognate protein;

Accession HSHSC70

CCTGAGAATAGGTCTAGCATTGTTCCACACAAAACATTTGAAGGACCCAAATTTGTAGCAAATTCCATG  
GCAGTGAAGTTGAGCTGCTATAGTTAATAAACTGGGCATTCTTGATACTTGAATATGGAATATGTGCAC  
AAGGGAAGTAAATACAACATTGCACTTTATAAGCACTGTATTGTTAAGTGGGAAATGCAATGTCTTTAA  
AATAAACTGTATTTAAAATTGGCGCCCCAAAA AAAAA

SEQ ID. NO.: 107

pKVC46B: Homologous to Human 71 kD heat shock cognate protein;

Accession HSHSC70

CCTGAGAATAGGTCTAGCATTGTTCCACACAAAACATTTGAAGGACCCAAATTTGTAGCAAATTCCATG  
GCAGTGAAGTTGAGCTGCTATAGTTAATAAACTGGGCATTCTTGATACTTGAATATGGAATATGTGCAC  
AAGGAAAGTAAATACAACATTGCACTTTATAAGCACTGGTATTGTTAAGTGGGGAATGCAATGTGCTTA  
AATAAACTGTATTTAAAATTGGCACCAA

SEQ ID. NO.: 108

pKVC35B: Homologous to Human Vacuolar proton ATPase channel;

Accession HSPCHSUA

CTTTAGAGGACACACACNCACGGGGCCGCCGCCCCCAGTAGTCGGTCTTGTAATGCGCAGTGTCTTA  
GTGCCCCGTTGTCTGCTACCCCGGCCTCGCCCCCGCCCCGCCCCGTGCCGTGGACATCCGGGGCCACTCC  
TTACCCATCCGGGCCTCCGGCCCCACTCATCTGCCCTAGAGCGCTCTGTAGAAGGGTGAATTAGAGTT  
GTATTTCTCTTCACTGGATGTTTCTTATTATA AAGATTGATCTGTTC

SEQ ID. NO.: 109

pKVC27B: Homologous to Rat Cytoplasmic Succinyl CoA synthetase;

Accession RNGLTA

GCGACACGTTCTGTCATTTATGTTCTCCTCCTTTTGCTGCTGCTGCCATCAATGAAGCTGTTGAGGCG  
GAAATGCCCTTGTTGTGTGCATTACTGAAGGTATCCACAGCAGGACATGGTGCGGGTCAAGCACAAA  
CTGCTGCGTCAGGGAAAGACCAGGCTGATCGGGCCTAACTGCCCTGGAGTGATCAATCCTGGAGAATGC  
AAAATTGGCATCATGCTGGCCATATTCACAAGAAAGGAAGAGTTGGTATTGTGTCCAGATCTGGG

SEQ ID. NO.: 110

pKVC22: Homologous to Human clq beta isoform; Accession HSC1QBR

GGAAAGATGGGATTGTATGAAACACTGCATTTACAGCAAAGACCTCAGTCCAGAACACAACACAGGGG  
ACCAAGTGGATTGAGGTGTGGTCAAACTCTGGGGATCACAGTGGGGATACCCTCCAGGGCTGGTGA  
CAGATTGAGGACCCTCCTGGCACACCCGGGACCCAGGGATAAAAGGAGAGAAAGGGCTGCCAGGGCTG  
GCTGGAGACCATGGCGAGTTTGGGGAGAAGGGA GACCAGGGATTCTGGAATCAGAAA

SEQ ID. NO.: 111

pKVC22B: Homologous to Human Phospholipase A2; Accession HUMPHPLA2

TTCCAGACGGGAGATTGATTGGAAAAAAGTAATGTGTTCCATTTAAAATTTTGGTATATGGCATTTT  
CTGACTTAGGAAGCCACAATGTTTTTGTCTTGGCCCATCATGACATTGGGTAGCATTAAAGTTTTGTGC  
TTCCAAATCACTTTTGTGTTTTAAGGATTTCTTGATCTTGTTATAGCCTGCCTTCAATTTTGATCTTTAT  
TCTTTCTATTTGTCAGGTGTACAGGATTACCTT TTTAGCCTTCTGTCTT

FIGURE 5R

46240-207060

ACCTTTCTATGTGTTTTATCTAATTATTTGGTTGTTAATATGGTAATAATTAAGTCAAGGTAAA  
TTTTAAATATTAAGATTTCTGATTTATTGAGCTTGACTTATGCCACCACGCTTATGTAAAATGAAAGTA  
GCACCATGGTGAAACTGAAAAAGTTGCTCAGTTGTAACAGTTTTGATTTATTCTTTCTTGACCTCT  
TTCCCTTATTGTCTTGAACCATAGCAAAGGATACTGCATCTCTTAATAATTGTAGTGCTGAGGTATT  
GAaGTTATAT

pKVC18: Homologous to Human Cytochrome oxidase I; Accession MIHSCG  
GTTATATTGACTCCTACAAACATAATCGTAAAGTGAATCTTTGCTCAAGTGTGTCAAGGGTATATCCT  
GAGAATAGGGGGAATCAATGGACGAAGCCTCCTATGATAGCGAATACTGCTCCTATTGACAAGACATAG  
TGAAAGTGGGCCACTACGTAATATGTGTCGTGAAGAACAATG TCTAGTGAAGAGTTTGCTAGTACA

pKVC17B: Homologous to Rat SubstanceP receptor; Accession RNSPR05  
GCTATAGACACAACACTTTCACT  
CACCA

pKVC12B: Homologous to Human 90 kD heat shock protein;  
Accession HSHSP90R  
ACGCTCGTTTTCCAAAGAGAAGAGCGTTGTTTAGAGTAGCGAAATTCGAAGGCTGCTTAGGCGCATTGT  
AAAGCTGTTGGGGAAATAACTCCACAAGTTTCGTGAGTGGAAATGTAGTGCTCGAAACACATTCTGCTT  
TAAAGGTTGTAACAAATACAAACAAATTTAAAAAAGCTCTGACAAATGTTTTGTGTGGGGAAGCGGG  
GTTCCAAAATACAGGGCGGCCCC

pKVC10B: Homologous to Human Cytoskeletal gamma actin;  
Accession HSACTCGR  
TTGTCATCTCTTCAAGAAATTGACAACAGATTTTGGTTTTCTACTGTCATGTGGAACATT  
AGGCCCCAGCTTCGGCTCCTTGTGCGAGGAAAATAAA

FIGURE 5S

SEQ ID. NO.: 117

pKVC9: Homologous to Human v-fos transformation effector; Accession HSFTE1A

GCATCTGATGGCCTTAAGGGTCGTGTGTTTGAAGTAAGCCTGGCTGATTTGCAGAATGATGAAGTTGCA  
TTTAGGAAATTCAAGCTAATTACTGAAGATGTTCAAGGCAAAAAGTGCCTGACTAATCTCCATGGCATG  
GATCTTACCCGGGACAAAATGTGCTCCATGGTCAAAAATGGCAGACCATGATTGAAGCTCACGTTGAT  
GTCAAAACTACCGATGGGTATTTGCTTCGTCTCTTTTGTGTCGGTTTTACTAAAAACGCAACAATCAG  
A

SEQ ID. NO.: 118

pKVC6B: Homologous to Chicken Amphiphysin; Accession GDAMPHIP

CCTTCCAGAACCCTGAGGAGCAGGATGAAGGCTGGCTCATGGGCGTGAAGGAGAGTGACTGGAACCAGC  
ACCTAGAGCTGGAGAAATGTCGGGGCGTCTTCCCCGAGAACTTCACCGAGCGGGTTCAGTGAGGGCAGC  
AGCTGCTGAG

SEQ ID. NO.: 119

pKVC6: Homologous to Human TAPA-1; Accession HSTAPA1

TCTACGACCAGGCTTTGCAGCAGGCCGTGGTAGACGACGACGCCAACAATGCCAAGGCCGTGGTGAAGA  
CCTTCCATGAGACGCTCAACTGCTGTGGCTCCAGCACGCTCTCCGCGCTGACCACCTCCATTCTCAAGA  
ACAACCTGTGTCCTTCAGGCAGCACTGTCATCAGCAACTTCTTCAAGGAGGACTGCCACCAGAAGATCG  
ATGACCTCTTCTCGGGAAAGCTGTATCTCATTG GCAT

SEQ ID. NO.: 120

pKVC4B: Homologous to Rat alpha internexin; Accession#RNINTLAA

CACCTAAAGAGTTGCCAGGTCTCTGTACACATCTCCATTCACAACAGATAGGGTGTGATGCTTTTACT  
AACTTTCTTATCCTAGGACCTGCTGCAATGGTTCAAGGAACTGGAAAGATGCTTTCTTCTTCTTCTT  
CCCTCACTCCATCCCTGTCTTTACTCCTCAGACTTCCTGTAAACATTAGTAAGATAAGAATTAAGT  
CACACGAATCCAC

SEQ. ID. NO.: 121

>pKVC154

ATTTGGCTCAGTGGCAGAGCGCTTGCTAGGAAGAGCAAGGCCCTGGGTTCGGTCCCAGCTCCGpoly  
(A)

SEQ. ID. NO.: 122

>pKVC159

GGGAGGAGGAGGAAGAGGAGGAAGGAGAGGAGGAGGAGGAGGCTGCAAAGGCTCTGGGCTCCTCTpoly  
(A)

SEQ. ID. NO.: 123

>pKVC151

GTAATTATTGGCTCAACTTTCTAATTGTCTGTCTACTACGACAACTAAAATTCCACTTCACATCAAAA  
CATATTTCCGATTTGAAGCCGAGCATGATACTGACACTTCGTAGATGTAGTTTGACTATTCCTATAC  
GTTTCTATCTATTGATGAGGATCCTpoly(A)

FIGURE 5T

09301507-04289



SEQ. ID. NO.: 124

>pKVC158

GATTTGGAGAAGCCTTCGCATCAAAACGAGAAGTACGCTCAATTTCTACTCCTCAACTAACCTAGAAT  
GACTGCATGGATGCCCCCACCCTACCACACATTTCGAAGAACCTTCCTACGTAAAAGTTAAATAAGAAA  
GGAAGGATTGGAACCCCTACAACCTGGTTTCAAGCCAATTTTCATAACCATTATGTCTTTCTCAATpoly  
(A)

SEQ. ID. NO.: 125

>pKVC160

AAGGATAATGCTGTTTATTAATAATACTCAGGAAGTCAGGGTATTGATGCAATTTTACATACGCACT  
TGGGTAGTCTGAAGTTCCATTATTCCAGCAGTTTATATAAATGTTTCAGATCAAAGAGAAAAGAAAACA  
CTTTACAGAGACCAGCAGTTGCTTATCAGTTTGGTCATGAGTCTGCTTGTAGTAAAAATAAACTCCCT  
CTTGCAATTGCTGAAGAATGTCCTT

SEQ. ID. NO.: 126

>pKVC157

CAGCTCCCTAGTACTTTACTATTATTTCACTAATACTAACAACAAAATAACACACACAAGCACAATAG  
ACGCCCCAAGAAGTAGAAACAATTTGAACAATCCTCCAGCTGTCATTCTTATCCTAATTGCCCTTCCCT  
CCCTACGAATTCTATACATAATAGACGAGATTAATAACCCAGTTCTAACAGTAAAACTATAGGACACC  
AATGATACTGAAGCTATGAATATCTGACTATAAGACCTATGCTTTGACTCCTACATAATCCC

SEQ. ID. NO.: 127

>pKVC156

CCATGCTTGTGACAGACATACAGCCACTTCCAATAAGCAAGCCTCTGCTTCCTGCTACCTGCATGGA  
GCCCCACTGTGACACTCAGACCATCCCCGGTCACTCACTCGTGTCTGAGAATCTCAGTGAGAGCTGCCTC  
TGTCACGGACGGAAGCCAACACAGCCACCTCTCGACCTGGCTCCCCACAGCACCCACCCTCCCTGCATG  
CAGCTGTCCCTGCTAACCCCCAATGTTATGTTACACTGTGTAAATCCCCACTGCTGCCGTGTGTGGGTT  
GTGTACGTGTCATGTCCTGGTTTATAACTATGGTGCGGTGCGGAAGGATTCTGTAAATGCTGCTCTAA  
GA

SEQ. ID. NO.: 128

>pKVC153

CCTAGACTCACAAGTCAAAGTAATACTAATATCTTATTGACCCAATTATTGATCAACGGACCAAGTTAC  
CCTAGGGATAACAGCGCAATCCTATTTAAGAGTTCATATCGACAATTAGGGTTTACGACCTCGATGTTG  
GATCAGGACATCCAATGGTGCAGAAGCTATTAATGGTTCGTTTGTTCACGATTAAAGTCTACGTGA  
TCTGAGTTCAGACCGGAGCAATCCAGGTCGGTTTCTATCTATTTACAATTTCTCCCAGTACGAAAGGAC  
AAGAGAAATGGAGCCTCCTTACCATAAGTGCTCCCAACCAATTTATGpoly(A)

SEQ. ID. NO.: 129

>pKVC152

GCTTCAATTTACTAGTTCAACTTATATAAAAACAACCTAATGGGCTAAAACAAAATAAATATGAACTAA  
AAAATTTTCGGTTGGGGTGACCTCGGAGAATAAAAAATCCTCCGAATGATTTTAACCTAGACTCACAAGT  
CAAAGTAATACTAATATCTTATTGACCCAATTATTGATCAACGGACCAAGTTACCCTAGGGATAACAGC  
GCAATCCTATTTAAGAGTTCATATCGACAATTAGGGCCCACGACCTCGATGTTGGATCAGGACATCCCA  
ATGGTGCAGAAGCTATTAATGGTTCGTTTGTTCACGATTAAAGTCTACGTGATCTGA

FIGURE 5U

SEQ. ID. NO.: 130

>pKVC161

AGAGATATCGGAACCCTCTACCTATTATTTGGAGCCTGAGCAGGAATAGTAGGGACAGCTTTAAGTATT  
CTAATTCGAGCTGAAC TAGGACAGCCAGGCGCACTCCTAGGAGATGACCAAATCTATAATGTCATCGTC  
ACAGCCCATGCATTGTAATAATTTCTTTATAGTAATACCTATAATAATTGGAGGCTTCGGGAACTGA  
CTTGTAACCACTAATAATTGGAGCCCCTGATATAGCATTCCCACGAATAAATAACATAAGCTTTTGACTG  
CTTCCTCCATCATTTCTACTCC

SEQ. ID. NO.: 131

>pKVC162

GAGCTGTTGCCAGTGTAAGACAGCAAACATGGACACTCTCGCACTGTGCATCACAAAGCTAACAAATC  
GAAATCTTGAATGCAGTCTGTCCTAAGTCCAGGCAAGTGACAGCCATGTGTGTCTGCAGTGCTGTGTCA  
CCACGTCCTGCATTGTTGGAGCTGCTGCAGGGACACTGAGATGAGCAGGTTCTTTGGAAAGAACTGTTG  
TGCTCCTCAAAGCAGTGTTTCAGATTTTAAAGGTTCTTAGCCTCCTCAGTTCCTTATGTGGAAGTGTAGG  
ATCCCCCTTCATAAATTTTAAAGTGCTTATGTGATCCAATTGGTCTACATTTT

SEQ. ID. NO.: 132

>pKVC36BR

CTTTAGAGAAGGCAGGTCTTACAAACACTACAGAAAAGCCGTTTGGACGTAA  
AAATCCAAGGAGAAAGGAGTCATTAGGAAATGTAACATAGGACACAGAACG  
CATGTTGTGTGATGGTCCCTTCTCTCCGTGTGGTTCCAGAATATGCTCCTGAC  
CCCAGAGCCGCCACCTGAGCGCGCACCGGGAAGGTCACAGACGACTTCAGGC  
TTCAGGCGCAACGTC

WW\MISC-7\2318SEQR\V2

FIGURE 5V

09301507 1042899  
658240 20510960